

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P488817

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-50-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P488817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-12-4-INS-P12125-LD4-2STD-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

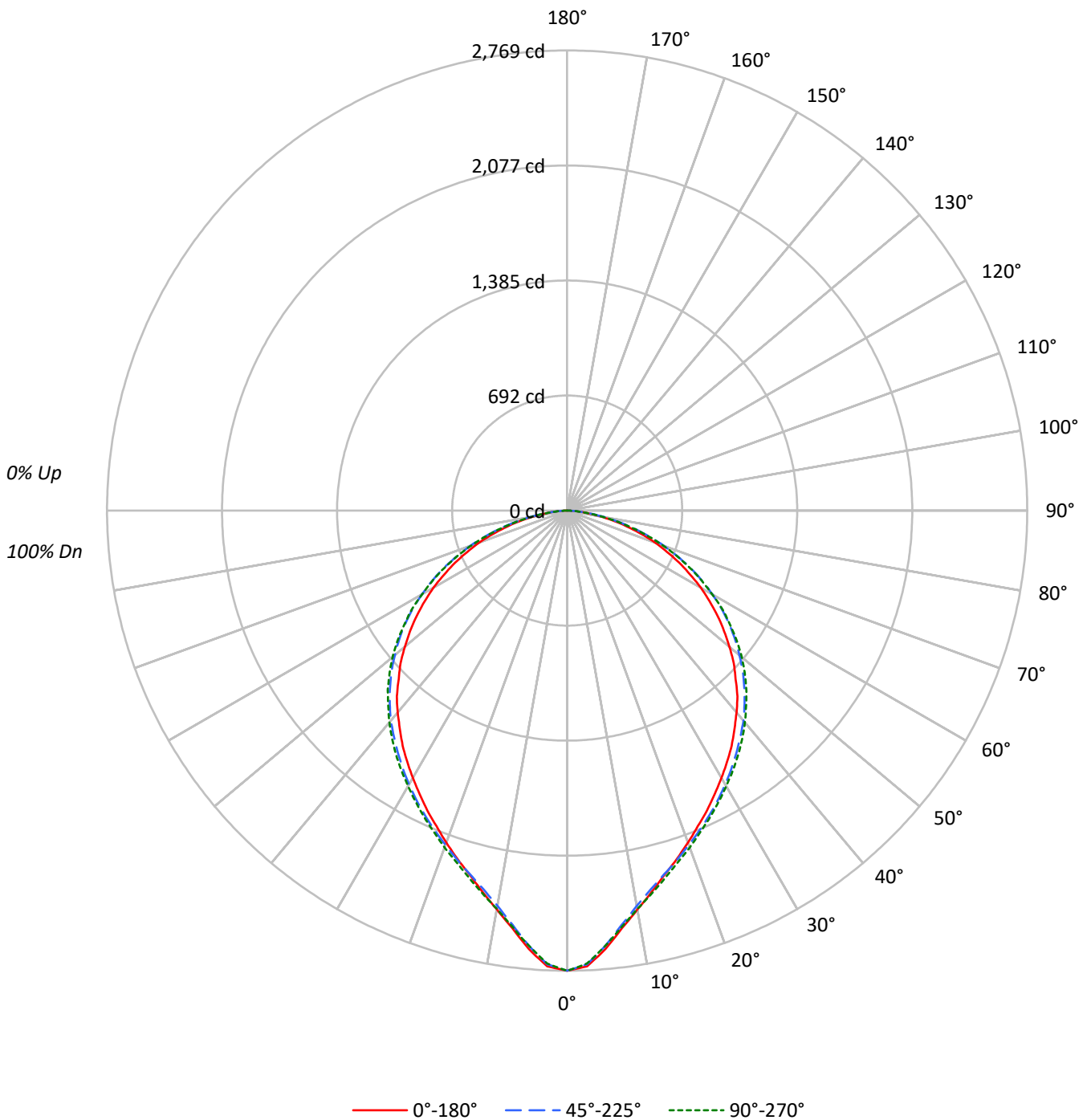
Lumens per Lamp: N/A
Luminaire Lumens: 6431.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7451	7451	7451
5°	7154	7103	7103
10°	6658	6598	6649
15°	6318	6307	6368
20°	6086	6130	6178
25°	5912	6009	6044
30°	5770	5912	5949
35°	5671	5837	5896
40°	5570	5797	5845
45°	5455	5740	5808
50°	5335	5668	5744
55°	5187	5586	5609
60°	5000	5433	5422
65°	4740	5224	5189
70°	4426	4872	4812
75°	3906	4316	4273
80°	3174	3516	3344
85°	2201	2242	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	3.8
10°-20°	640.9	10.0
20°-30°	931.9	14.5
30°-40°	1109.0	17.2
40°-50°	1151.5	17.9
50°-60°	1043.2	16.2
60°-70°	787.2	12.2
70°-80°	428.9	6.7
80°-90°	94.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1817.4	28.3
0°-40°	2926.4	45.5
0°-60°	5121.1	79.6
0°-90°	6431.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6431.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2769	2769	2769	2769	2769	
5°	2648	2642	2630	2628	2630	246
15°	2268	2262	2264	2279	2286	640
25°	1991	2008	2024	2040	2036	918
35°	1726	1747	1777	1804	1795	1079
45°	1434	1459	1508	1525	1526	1108
55°	1106	1132	1191	1199	1196	987
65°	744	766	820	819	815	736
75°	376	391	415	418	411	400
85°	71	72	73	72	70	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2768.8	2768.8	2768.8	2768.8	2768.8
2.5°	2744.6	2741.8	2732.8	2729.4	2728.7
5°	2648.4	2642.2	2629.7	2628.4	2629.7
7.5°	2533.6	2526.6	2514.2	2519.1	2525.3
10°	2436.7	2419.4	2414.6	2421.5	2433.3
12.5°	2350.2	2336.4	2332.2	2350.2	2358.6
15°	2267.9	2262.4	2263.8	2279.0	2285.9
17.5°	2196.7	2193.2	2202.2	2214.0	2217.4
20°	2125.4	2132.3	2140.6	2153.1	2157.2
22.5°	2055.5	2068.6	2082.5	2099.1	2093.6
25°	1991.2	2007.8	2023.7	2040.3	2035.5
27.5°	1922.7	1942.0	1964.2	1982.2	1975.2
30°	1856.9	1881.1	1902.6	1924.7	1914.4
32.5°	1791.9	1814.8	1840.3	1867.3	1855.6
35°	1726.2	1746.9	1776.7	1803.7	1794.7
37.5°	1653.6	1679.1	1713.0	1736.5	1730.4
40°	1585.7	1609.3	1650.1	1665.3	1663.9
42.5°	1517.2	1536.6	1579.5	1596.8	1594.0
45°	1433.5	1459.1	1508.2	1524.9	1526.2
47.5°	1359.5	1381.0	1433.5	1446.7	1449.4
50°	1274.4	1301.4	1354.0	1369.9	1372.0
52.5°	1190.7	1219.7	1273.7	1284.8	1286.9
55°	1105.6	1131.9	1190.7	1199.0	1195.5
57.5°	1016.3	1048.2	1102.2	1106.3	1109.7
60°	929.1	956.8	1009.4	1014.9	1007.4
62.5°	834.4	862.7	916.7	918.1	911.8
65°	744.4	765.9	820.5	819.2	815.0
67.5°	650.3	676.6	716.8	718.1	714.7
70°	562.5	580.5	619.2	619.9	611.6
72.5°	467.7	487.1	518.2	514.1	512.0
75°	375.7	390.9	415.1	417.9	411.0
77.5°	291.3	302.3	320.3	318.3	310.6
80°	204.8	213.8	226.9	224.2	215.8
82.5°	130.7	136.3	144.6	141.1	137.7
85°	71.3	71.9	72.6	71.9	69.9
87.5°	26.3	27.0	27.0	26.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)